Application No.: 09/648, 263 Amendment dated: August 6, 2007 Reply to Office Action of April 6, 2007 Attorney Docket No.: 1002-0003

This listing of claims will replace all prior versions and listings of claims in this application:

b.) Listing of Claims

- 1. (Currently amended) An optical monitoring system, comprising:
 - a-signal source for an optical signal having spectrally-separated channels
 having spectral information distributed within a first spectral band and a
 second spectral band;
 - a tunable filter that filters the optical signal;
 - driver electronics including a ramp generator for applying a ramp drive voltage
 to the tunable filter to scan transmission peaks of the tunable filter across
 the first spectral band and the second spectral band;
 - a dichroic filter that separates the first spectral band from the second spectral band in the filtered optical signal from the tunable filter;
 - a first optical signal detector for detecting channels spectral information in the first spectral band in the filtered optical signal; and
 - a second optical signal detector for detecting channels spectral information in the second spectral band in the filtered optical signal.
- (Currently amended) An optical monitoring system as claimed in claim 1, further comprising an isolator for suppressing back reflections into the a signal source for the optical signal.
- (Original) An optical monitoring system as claimed in claim 1, further comprising:
 - a reference source for generating a reference signal outside of the first and second spectral bands; and
 - a reference signal detector for detecting the reference signal post filtering by the tunable filter.

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4. (Original) An optical monitoring system as claimed in claim 3, wherein the reference source comprises:

a broadband source: and

an etalon that generates a reference signal with stable spectral characteristics.

- 5. (Original) An optical monitoring system as claimed in claim 4, wherein the etalon functions as a Fabry-Perot filter to generate a reference signal with spectrally-spaced energy peaks from a broad band signal from the broadband source
- (Original) An optical monitoring system as claimed in claim 1, wherein the first and second spectral bands are L and C-communication bands.
- 7. (Original) An optical monitoring system as claimed in claim 1, wherein a free spectral range of the tunable filter is selected to enable simultaneous detection in the first spectral band and the second spectral band.
- 8. (Original) An optical monitoring system as claimed in claim 1, wherein a free spectral range of the tunable filter is greater than a range of the first spectral band and the second spectral band individually and less than a range of the first spectral band added to the range of the second spectral band.
- 9. (Currently amended) A method for optical signal monitoring, comprising: receiving an optical signal having spectrally separated channels spectral information distributed within a first spectral band and a second spectral band:
 - applying a ramp drive voltage to a tunable filter to scan transmission peaks of the tunable filter across the first spectral band and the second spectral band:

filtering the optical signal with the tunable filter;

separating the first spectral band from the second spectral band in the filtered optical signal:

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detecting channels in the first spectral band in the filtered optical signal; and detecting channels in the second spectral band in the filtered optical signal.

- (Currently amended) A method as claimed in claim 9, further comprising suppressing back reflections into the signal source of the optical signal.
- 11. (Original) A method as claimed in claim 9, further comprising generating the reference signal and filtering the reference signal.
- 12. (Original) A method as claimed in claim 9, further comprising: generating a reference signal; and filtering the reference signal simultaneously with the optical signal.
- (Original) A method as claimed in claim 9, further comprising simultaneously filtering the first and second spectral bands in the optical signal.
- 14. (Original) A method as claimed in claim 9, wherein the first and second spectral bands are L and C-communication bands.
- 15. (Original) A method as claimed in claim 9, further comprising controlling a free spectral range of the tuning step to enable simultaneous detection in the first spectral band and the second spectral band.